IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Christina Alpert Heinz-Peter Rink

Serial No.: This application is a National Phase Application of PCT/EP2004/052348, filed 21 September 2004, which claims priority to DE 10346157.4, filed 4 October 2003

Filed: herewith

Auxilliary Liquid Rheological

Medium, Method for the Production and Use Thereof

Group Art Unit: Unknown

Examiner: Unknown

I hereby certify that the attached correspondence is being deposited by EFS - WEB addressed to Box PCI, Commissioner for Patents, P.O. BOX 1450, Alexandria, Virginia 22313-1450, on the date shown below.

March 22, 2006

Date

Mariorie Ellis

Box PCT Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

For:

This preliminary amendment is submitted with the application for entry into the U.S. National Phase under Chapter II. This application is a National Phase Application of PCT/EP2004/052348, filed 21 September 2004, which claims priority to DE 10346157.4, filed 4 October 2003.

In connection with the filing of this National Phase application, please make the following preliminary amendments.

In the Specification:

Please delete the title and insert the following title.

Auxilliary Liquid Rheological Medium, Method for the Production and Use Thereof

Page 1, following the title, insert: Cross Reference to Related Applications

This application is a National Phase Application of PCT/EP2004/052348, filed 21

September 2004, which claims priority to DE 10346157.4, filed 4 October 2003.

Page 1, line 3, insert before the first paragraph: Field of the Invention

Page 1, line Background of the Invention

Page 5, line 6, insert: Summary of the Invention

Page 1, line 10, insert: Background of the Invention

Page 7, line 13, insert: Detailed Description of the Preferred Embodiments

Please delete the Abstract and substitute with the following:

Abstract

Abstract

A liquid theological aid comprising at least one urea derivative preparable which is the reaction product of at least one compound having at least one isocyanate group and at least one co-reactant selected from primary and secondary monoamines and polyamines and water reacted in the presence of organobismuth catalyst, process for the preparation therof and its use.

Please make the following amendments to the claims.

1 (Currently Amended) A liquid rheological aid comprising

- (A) at least one urea derivative preparable prepared by reacting
 - (a1) at least one compound having at least one isocyanate group with
 - (a2) at least one co-reactant selected from the group consisting of primary monoamines and polyamines, and secondary monoamines and polyamines and also water, in the presence
 - (a3) of at least one organobismuth catalyst; and
- B) at least one additive.
- 2 (Original) The rheological aid as claimed in claim 1, wherein the organobismuth compound (a3) is selected from the group consisting of bismuth salts of organic carboxylic acids and complexes of bismuth with chelating agents
- 3 (Original) The rheological aid as claimed in claim 2, wherein the organic carboxylic acids are aliphatic carboxylic acids
- 4 (Original) The rheological aid as claimed in claim 3, wherein the aliphatic carboxylic acids are monocarboxylic acids
- 5.(Original) The rheological aid as claimed in claim 4, wherein the monocarboxylic acids contain long-chain alkyl groups.

- 6.(Original) The theological aid as claimed in claim 5, wherein the long-chain alkyl groups contain 6 to 16 carbon atoms.
- 7 (Original) The rheological aid as claimed in claim 6, wherein the monocarboxylic acids are selected from the group consisting of octanecarboxylic acid, 2-ethylhexanecarboxylic acid, and neodecanecarboxylic acid.
- 8.(Original) The rheological aid as claimed in claim 2, wherein the chelating agents are nonaromatic compounds.
- 9.(Original) The rheological aid as claimed in claim 8, wherein the chelating agents contain at least two functional groups capable of coordination to metal atoms or metal ions.
- 10.(Original) The theological aid as claimed in claim 9, wherein the functional groups are electron donors.
- 11 (Original) The rheological aid as claimed in claim 9 or 10, wherein functional groups capable of coordination to metal atoms or metal ions are carbonyl groups.
- 12 (Original) The rheological aid as claimed in claim 11, wherein the chelating agents are 1,3-diketones.
- 13 (Original) The rheological aid as claimed in claim 12, wherein the diketones are selected from the group consisting of acetylacetone, ethyl acetoacetate, tetramethylheptanedione, and hexafluoropentanedione.

- 14 (Currently Amended) The rheological aid as claimed in any of claims 1 to 13 claim 1, wherein the molar ratio of isocyanate groups (NCO) in the compounds (a1) to bismuth (Bi) in the organobismuth compounds (a3) is from 300: 1 to 20:1.
- 15 (Original) The rheological aid as claimed in claim 14, wherein the NCO: Bi molar ratio is from 260: 1 to 25: 1
- 16 (Currently Amended) The rheological aid as claimed in any of claims 1 to 15 claim 1, comprising the urea derivative (A) in an amount, based on the rheological aid, of more than 10% by weight
- 17 (Original) The rheological aid as claimed in claim 16, comprising the urea derivative (A) in an amount, based on the rheological aid, of more than 10 to 20% by weight.
- 18.(Currently Amended) The rheological aid as claimed in any of claims 1 to 17claim 1, wherein the urea derivative (A) is crystalline.
- 19 (Original) The rheological aid as claimed in claim 18, wherein the urea derivative crystals (A) are acicular with a full or partial helical twist.
- 20 (Currently Amended) The rheological aid as claimed in claim 18 or 19, wherein the urea derivative crystals (A) have a particle size of from 0.1 to 6 μm
- 21 (Original) The rheological aid as claimed in claim 20, wherein 80% of the urea derivative crystals (A) are < 2 μm.

- 22 (Currently Amended) The rheological aid as claimed in any of claims 1 to 21 claim 1, wherein the additive (B) is selected in particular from the group consisting of pigments, oligomeric and polymeric binders curable physically, thermally and/or with actinic radiation, crosslinking agents curable thermally or both thermally and with actinic radiation, reactive diluents curable thermally and/or with actinic radiation, organic solvents, water, UV absorbers, light stabilizers, free-radical scavengers, devolatilizers, slip additives, polymerization inhibitors, defoamers, emulsifiers, wetting agents, dispersants, adhesion promoters, leveling agents, film-forming auxiliaries, flame retardants, siccatives, dryers, antiskinning agents, corrosion inhibitors, waxes, and flatting agents_and mixtures thereof.
- 23 (Currently Amended) A process for preparing a liquid rheological aid comprising at least one urea derivative (A) and at least one additive (B), as claimed in any of claims 1 to 22 claim 1, which comprises preparing the urea derivative (A) by reacting at least one compound (a1) having at least one isocyanate group with at least one co-reactant (a2) selected from the group consisting of primary and secondary monoamines and polyamines and also water, in the presence of at least one organobismuth catalyst (a3), in at least one liquid additive (B)

Please cancel claims 24-26, without prejudice.

REMARKS

Upon entry of the preliminary amendment, claims 1-23 are pending in the application.

Claims 24-26 are canceled without prejudice. The claims have been amended to comport with

U.S. Patent Office regulations. Examination of the claims is respectfully requested.

Respectfully submitted,

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March 21, 2006 BASF Corporation 26701 Telegraph Road Southfield, MI 48034-2442